

PHYSICS 225 A - HOMEWORK ~~4~~ 4

1

1

(a) σ spinless, all angular momentum orbital

$$\text{Parity: } (-1)^L \Rightarrow J^P = 0^+, 1^-, 2^+$$

This does not explain quantum numbers of actual mesons, eg π is 0^-

(b) $P(\sigma, v_s) = (-1)(-1)^L = (-1)^{L+1}$

$L=0 \rightarrow J=1 \rightarrow 1^-$	] Inconsistent with pseudoscalar meson quantum numbers
$L=1 \rightarrow J=0, 1, 2 \rightarrow 0^+, 1^-, 2^+, \dots$	
$L=2 \rightarrow J=1, 2, 3 \rightarrow 1^-, 2^-, 3^-, \dots$	

2

(a) $3 \otimes 3 = 6 \oplus \bar{3}$ (Halzen and Martin, Figure 2.6)

(b) 6 is flavor symmetric, one isospin triplet
one isospin doublet
one isospin singlet



$\bar{3}$ is flavor antisymmetric, one isospin doublet
one isospin singlet



(c) Lowest mass, $L=0 \Rightarrow P = (-1)^L = +1$

$$|\psi\rangle = |\text{spin}\rangle |\text{space}\rangle |\text{flavor}\rangle |\text{color}\rangle$$

↑
symmetric
for $L=0$

↑
antisymmetric

$S=1$ symmetric $\Rightarrow 6$ representation, $J^P = 1^+$
 $S=0$ antisymmetric $\Rightarrow \bar{3}$ representation, $J^P = 0^+$

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Rao Singiresu, Singiresu S. Rao



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Proceedings Of The 29th International Conference On High Energy Physics: IcheP '98 (In 2 Volumes) Alan Astbury, David A Axen, Jacob Robinson, 1999-06-11 These proceedings consist of plenary rapporteur talks covering topics of major interest to the high energy physics community and parallel sessions papers which describe recent research results and future plans Solutions Manual Rao Singiresu, Singiresu S. Rao, 2002-01 **Student Solutions Manual** Steve Rigdon, 2006-08-16 **Solutions Manual** Bernard Sklar, 2001-02 Solutions Manual to Accompany Numerical Methods for Engineers Steven C. Chapra, Raymond P. Canale, 1985 *Solutions Manual to Accompany Introduction to Numerical Methods and Analysis* Epperson, 2002-08-01

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